## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                              | INITIALS | <del>గ</del> ు. | DATE     |
|---------------------------------------|----------|-----------------|----------|
| CEE DETERMINATION                     |          |                 |          |
| FEE DETERMINATION O.I.P.E. CLASSIFIER |          |                 |          |
| FORMALITY REVIEW                      | la       | 852             | 11-26-01 |
| RESPONSE FORMALITY REVIEW             | 18A      | JC1(124)        | 02-08-62 |
|                                       | AG       | 690             | 5-16-02  |

## INDEX OF CLAIMS

|   | Rejected                   | N Non-elec |  |
|---|----------------------------|------------|--|
| _ | (Through numeral) Canceled | A Appeal   |  |
| ÷ | Restricted                 | O Objected |  |

|          |              |             |             |          | _        |          |          |          |          |              | ········  | F        |          | HUU   |          |               |          | ate          |        |         |         |              | _   | Cla           | Objec      |  |           |            | <br>Date |                 |           |                 |          |
|----------|--------------|-------------|-------------|----------|----------|----------|----------|----------|----------|--------------|-----------|----------|----------|---|----------|---------------|----------|--------------|--------|---------|---------|--------------|-----|---------------|------------|--|-----------|------------|----------|-----------------|-----------|-----------------|----------|
|          | Cla          | _           | ٦-          |          |          | ᆛ        | ate      | <u> </u> |          |              | -         | Cla      |          | _   | $\neg$   | $\neg$        |          |              | $\top$ | $\top$  | Т       | ┰┤           | F   | -1            |            |  | Т         | 寸          |          | <u>-</u> T      | Т         | Т               | T        |
|          | <u></u>      | C) Origina! | 2/2         |          |          |          |          | Ì        | İ        |              |           | Final    | Original |   |          |               |          |              |        |         |         |              |     | Final         | Original   |  |           |            |          |                 |           |                 |          |
|          | 듄            | ē           | Ų           |          | $\perp$  |          |          |          |          |              |           | 遭        | Ŏ        |   |          | _             | $\perp$  | $\perp$      |        | 4       | 1       | 1_           |     | 匞             | <u> </u>   | Ш  |           | $\dashv$   | $\dashv$ | 4               |           | $\dashv$        |          |
| :        |              | V           | 1           |          |          |          |          |          |          |              | Ш         |          | 51       | 4   |          | $\rightarrow$ | 4        | _            | 4      | 4       |         | Ш            | ļ   |               | 101        | $\square$  |           |            | $\dashv$ | $\dashv$        | $\dashv$  | $\dashv$        | +        |
| - A-     |              | 2           |             | _        |          | 4        | _        | _        | $\perp$  | $\perp$      |           | $\perp$  | 52       | $\perp$   | _        | _             | +        | 4            | - -    |         | +       | $\sqcup$     | ŀ   |               | 102        | $\vdash$   |           | $\dashv$   | $\dashv$ | $\dashv$        | $\dashv$  | +               | +        |
|          |              | 3           | Ш           |          |          | $\perp$  |          |          | _        | $\perp$      |           | <u> </u> | 53       | Ш   | _        | $\dashv$      | _        | _            | 4      | 4       | -       | $\sqcup$     | }   |               | 103        | $\vdash$   | $\vdash$  |            | $\dashv$ | $\dashv$        | +         | $\dashv$        | +        |
| 1        | <u> </u>     | 4           | Ш           | 4        | _ -      | -1-      | 4        | _        | _        | 1_           | Щ         |          | 3        | +   | -        | -+            | +        | +            | +      | -       | ┿       | +            | ŀ   |               | 104<br>105 | ┝┤   | -+        | $\dashv$   | $\dashv$ | $\dashv$        |           | +               | +        |
| ,        | 上            | 5           | Ш           | _        | 4        | 4        | -        | 4        | -        | +            | <u> </u>  | $\vdash$ | 55<br>56 | $+\!$ | -        | +             | +        | +            |        | +       | +       | $\vdash$     | ŀ   |               | 106        |  | $\vdash$  | $\vdash$   | -+       | +               | +         | -               | +        |
|          | <u> </u>     | 6           | Ш           | $\dashv$ | $\dashv$ |          | 4        | $\dashv$ | +        | ┼            | Н         | $\vdash$ | 57       | H   | $\dashv$ | -+            | +        | -            | +      | +       | +-      | $\vdash$     | }   | _             | 107        | Н  | $\vdash$  |            | $\dashv$ | $\dashv$        | $\dashv$  | +               | -        |
|          |              | 7           |             | $\dashv$ |          | -+       | +        |          | +        | +-           | H         | -        | 58       | Н   | -+       | $\dashv$      | $\dashv$ | +            | +      | +-      | +       | $\vdash$     | +   | _             | 108        | $\vdash$   |           | $\dashv$   | $\dashv$ | $\dashv$        | 7         | $\dashv$        | +        |
| ,        | 1            | 9           | H           | $\dashv$ | -        | -+       | +        | +        | +        | +-           | Н         | $\vdash$ | 59       | Н   | $\dashv$ | $\dashv$      | $\dashv$ | +            | +      | +       |         | Н            | ŀ   | _             | 109        | $\dagger$  | $\Box$    | $\Box$     | $\dashv$ |                 | $\dashv$  | $\dashv$        | +        |
| 1        | 1            | 10          |             |          | $\dashv$ | +        | $\dashv$ | +        | +        | +            | $\vdash$  | $\vdash$ | 60       | Н   | $\dashv$ | +             | $\dashv$ | +            | 十      | +       | +       | $^{\dagger}$ | ŀ   | $\overline{}$ | 110        | H  | П         | $\Box$     | _        |                 | 十         | $\exists$       | +        |
|          | -            | 11          |             | -        | -+       | +        | -        | +        | $\dashv$ | +            | $\vdash$  |          | <u>6</u> | Н   | $\dashv$ | $\dashv$      | +        |              | +      | +       |         | 1            | 1   |               | 111        | $\Box$   | П         |            | $\neg$   |                 | 寸         | $\neg$          | $\dashv$ |
|          | 1            | JQ.         |             |          | -+       | +        | $\dashv$ | -+       | +        | +-           | H         | $\vdash$ | 62       | 1   | $\dashv$ | $\dashv$      |          | 十            | +      | +       | $\top$  | $\vdash$     | Ì   |               | 112        |  | П         | П          | $\neg$   | $\neg \uparrow$ | $\exists$ | $\neg$          | $\top$   |
| 10       | H            | 13          |             | -+       | $\dashv$ | $\dashv$ | $\dashv$ | 十        |          | +            | $\vdash$  |          | 63       | Н   | $\dashv$ | $\dashv$      | $\dashv$ | 7            | Ť      | 1       |         | $\vdash$     | İ   |               | 113        | $\Box$   | П         | П          |          |                 |           | $\exists$       | 1        |
| •        | $\vdash$     | 14          |             | $\dashv$ | _        | $\dashv$ | $\dashv$ | 十        | 十        | +            | H         |          | 64       | T   | T        |               | T        | _            |        | T       |         | Т            |     | _             | 114        | H  |           |            |          | П               | $\exists$ | $\neg$          |          |
| •        | $\vdash$     | 15          | #-          | -+       | +        | +        | $\dashv$ | +        | +        | $\top$       | $\square$ |          | 65       | T   | $\vdash$ | $\dashv$      | 十        | 7            | 1      | T       | $\top$  | $\top$       |     |               | 115        |  |           |            |          |                 | コ         |                 |          |
|          | -            | 16          | #           |          | $\dashv$ | +        | _        | $\top$   | $\top$   |              | П         |          | 66       |   |          |               |          |              |        |         |         |              |     |               | 116        |  |           |            |          |                 |           |                 |          |
| •        | $\vdash$     | 17          | 1           | $\Box$   | _        |          |          |          |          | Ι            |           |          | 67       | $\Gamma$  |          |               | $\Box$   |              |        | $\perp$ |         |              |     |               | 117        | $\Box$   | Ш         | Ш          |          | $\Box$          | $\Box$    |                 |          |
|          |              | 18          |             |          |          |          |          | $\Box$   |          | <u> </u>     |           |          | 68       |   |          |               | $\Box$   | $oxed{\bot}$ |        |         | $\perp$ |              | [   | _             | 118        | $\Box$   | Ш         | $\square$  |          | Ш               |           |                 |          |
|          |              | 19          | <b>}</b>    |          |          |          | П        |          |          |              |           | _        | 69       |   |          |               |          |              |        |         |         |              |     |               | 119        |  |           |            | Ш        | Ш               |           |                 | $\perp$  |
|          | Г            | 20          |             |          |          | $\neg$   |          |          |          |              |           |          | 70       |   |          | ĺ             |          |              |        |         |         |              |     |               | 120        |  |           | $\square$  |          |                 |           |                 |          |
|          |              | 21          | 1           |          |          | $\neg$   | $\neg$   | T        |          | T            |           |          | 71       |   |          |               |          |              |        |         |         |              |     |               | 121        |  |           |            |          | Ш               |           |                 | $\perp$  |
|          |              | 22          | П           |          |          |          |          |          |          | $oxed{\Box}$ |           |          | 72       |   |          |               |          |              |        |         |         | _            |     |               | 122        |  | Ш         | Ш          |          | Ш               |           |                 | $\perp$  |
| •        |              | 23          |             |          |          |          |          | $\Box$   | T        |              |           |          | 73       |   |          |               |          |              | 1      |         |         |              |     |               | 123        |  |           | Ш          | لنا      |                 |           | $\square$       |          |
|          |              | 24          |             |          |          |          |          |          |          |              | Ш         | ┕        | 74       |   |          |               | _        | _            | _      | 4       |         | ↓_           |     |               | 124        | 1_   | Ш         | Ш          |          | $\sqcup$        | $\dashv$  |                 |          |
| •        | $\perp$      | 25          |             | Ц        | $\dashv$ | _        | _        | _        | 4        | _            | Ш         | $\perp$  | 75       | ļ   |          | _             | -        | $\perp$      |        | _       |         | 1-           |     |               | 125        | <del>                                     </del> | $\square$ |            | Щ        | $\vdash \vdash$ |           | -               | +        |
|          |              | 26<br>27    | Щ           | Ц        | _        | _        | _        | _        | $\perp$  | $\perp$      | Ш         | $\vdash$ | 76       | <u> </u>  |          | _             |          | 4            | 4      | -       |         | <u> </u>     |     |               | 126        | $\vdash$   | $\vdash$  | $\vdash$   | Н        | $\vdash$        |           | $\vdash$        | +        |
|          | $\mathbb{L}$ | (27         | 11          | Ш        | _        | _        |          |          | _        | 1            | Н         | _        | 77       | -   | $\sqcup$ |               | 4        |              | _      | +       | +       | -            |     | <u> </u>      | 127<br>128 | -  |           | H          | H        | $\vdash$        | $\vdash$  | $\vdash \vdash$ | +        |
|          | $\vdash$     | 28          |             | $\vdash$ | -        | -        | _        | 4        | +        | +            | Н         | <u> </u> | 78<br>79 |   | Н        |               | $\dashv$ | $\dashv$     | +      | +       | +       |              |     |               | 129        |  | ╁┤        | H          | $\vdash$ |                 | $\dashv$  | $\vdash$        |          |
| ,        | $\vdash$     | 29          |             | $\vdash$ |          | $\dashv$ | -        | -        | +        | +-           | $\vdash$  | $\vdash$ | 80       |   | Н        | -+            | $\dashv$ | $\dashv$     |        | +       | +       | +            | { } |               | 130        | +  | -         | $\vdash$   |          | -               | $\dashv$  | $\vdash$        |          |
|          | $\vdash$     | 30          | -           | $\vdash$ | -        | +        | -        | -        | +        | +            | $\vdash$  |          | 81       |   | Н        |               | +        | -+           | +      | +       | +       | +            |     |               | 131        | +  |           | $\vdash$   |          |                 | -         | $\vdash$        |          |
|          | $\vdash$     | 32          | -           | $\vdash$ | -+       | +        | $\dashv$ | $\dashv$ | ┿        | +            | H         | $\vdash$ | 82       | -   | Н        | $\dashv$      | -+       | $\dashv$     | +      | ┰       |         | +            | 1   |               | 132        | -  | Н         |            |          |                 |           |                 | 874      |
|          | 1            | 33          |             | $\vdash$ | -        | +        | $\dashv$ | $\dashv$ | -        | ╁            | Н         | $\vdash$ | 83       |   | $\vdash$ | _             | -+       | +            | ╅      | -       | ┰       | +            |     | _             | 133        | +  | Н         | H          | -        | П               |           |                 |          |
|          | H            | 34          |             | $\vdash$ | -        | $\dashv$ | $\dashv$ | +        | +        | +            | H         | -        | 84       |   | $\vdash$ | $\dashv$      |          | $\dashv$     | +      | +       | _       | +            |     |               | 134        | +  | М         | М          | $\Box$   |                 |           |                 |          |
|          | $\vdash$     |             |             | $\vdash$ | $\dashv$ | _        | $\dashv$ | 一十       | $\top$   | t            | H         | _        | 85       |   | П        |               |          | _†           | _      | T       | 7       | 1            |     | _             | 135        | 1  | П         | М          |          |                 |           | $\Box$          | $\Box$   |
|          | H            | 35<br>36    | <b>)</b> :† | $\vdash$ | $\dashv$ | 7        | +        | $\dashv$ | $\top$   | 十            | $\sqcap$  |          | 86       |   | П        |               | 7        | $\top$       | $\Box$ |         | $\top$  |              |     |               | 136        |  |           |            |          |                 |           |                 |          |
|          | $\vdash$     | 37          |             | İΠ       |          | $\neg$   | _        |          |          | T-           | П         |          | 87       |   |          |               |          |              |        |         |         |              |     |               | 137        |  |           |            |          |                 |           |                 |          |
|          |              | 38          |             |          |          |          |          |          |          |              |           |          | 88       | -   |          |               |          |              |        | $\perp$ | $\bot$  |              |     |               | 138        | L  |           | $\Box$     | $\Box$   | Ш               |           |                 |          |
| •        |              | 39          | П           |          |          |          |          |          |          |              |           |          | 89       | -   |          |               |          | _            |        | _ .     |         | <u> </u>     | ĺ   |               | 139        |  |           |            |          |                 |           |                 | -        |
|          |              | 40          | Ш           |          |          |          |          |          |          | ┸            | Ш         |          | 90       | L   | Ш        |               |          | $\perp$      |        |         | $\perp$ |              |     |               | 140        |  | $\sqcup$  | L          |          | Ш               |           | Ш               |          |
| , A      |              | 41          | Ш           |          |          |          |          |          |          |              | Ш         |          | 91       |   | Ш        |               |          |              | _      | _].     | _ _     |              |     |               | 141        | ┖  | $\sqcup$  | L          | $\perp$  | Ш               | Ш         | Ш               |          |
| 6        |              | 42          |             |          | $\Box$   |          |          |          |          | ┸            |           | _        | 92       | -   |          | $\Box$        | _        |              | _      | _       | 4       | <u> </u>     |     |               | 142        | ↓_   | Ш         | <u> </u> _ | igspace  | Ш               | Ш         | Ш               | _ _      |
| Ch'      | ·L           | 43          |             |          |          | _        |          | _        |          | _            | Ш         | _        | 93       |   |          | _             | _        | 4            | _      | _       |         | 4_           |     |               | 143        | ļ  | $\sqcup$  | <u> </u>   | <u> </u> | Ш               | Н         | Н               |          |
| 10.1     | $\vdash$     | 44          |             | _        | _        | _        | _        | _        | 4        | +            | Ш         |          | 94       |   | Ш        | $\perp$       |          | _            |        | 4       | -       | +-           |     |               | 144        | ₩  | ┦         | <u> </u>   | $\vdash$ | Н               | $\vdash$  | $\vdash$        | +        |
| 2/20/52  | $\vdash$     | 45          |             | $\vdash$ | $\dashv$ | 4        | 4        | -        | +        | +            | $\vdash$  | $\vdash$ | 95<br>96 |   | $\vdash$ | $\dashv$      | $\dashv$ |              |        | +       |         | +            |     |               | 145        | +  | ╢         | ₩          | ⊢        | Н               |           | ┝╾┥             | -        |
| ~        | -            | 46          |             | Н        | $\dashv$ | -        |          | $\dashv$ | +        | +-           | H         | -        | 97       |   | Н        | $\dashv$      | -+       | $\dashv$     |        |         | ┿       | +            |     |               | 146<br>147 | ╁╾   | H         | $\vdash$   | $\vdash$ | H               | $\vdash$  | H               | +        |
| 12       | H            | 48          |             | $\vdash$ | -        | 4        | 4        | -        | +        | +-           | H         | $\vdash$ | 98       |   |          | $\vdash$      | $\dashv$ | +            | -+     | +       | +       | +-           |     | -             | 148        | +  | $\vdash$  | ╁          | $\vdash$ | $\vdash \vdash$ |           | $\vdash$        |          |
| a        | $\vdash$     | 49          |             | H        | -        | $\dashv$ |          | -        | +        | +-           | H         |          | 99       |   | Н        |               | $\dashv$ | $\dashv$     |        | +       | +       | +            |     | _             | 149        | ╁╌   | H         | $\vdash$   | H        | $\vdash$        | Н         | Н               | _        |
| $\simeq$ | $\vdash$     | 50          |             |          | $\dashv$ |          | _        | _        | $\dashv$ | +            | H         | -        | 100      |   | Н        | $\neg$        | _        | 1            | 寸      | $\top$  | $\top$  | +-           | 1   |               | 150        | 1  | $\vdash$  |            |          |                 |           |                 |          |
| 1(80)    | A            | 1           |             |          |          |          |          |          | •        |              |           | -        | -        |   |          |               |          |              |        |         |         |              |     |               |            |  |           |            |          |                 |           |                 |          |
| 1        | 5            | ,           |             |          |          |          |          |          |          |              |           | If mo    | )ro      | th.   | an 1     | IEO           | ام ۱     | aim          | e ^    | r 1     | Λ       | ctic         | ne  |               |            |  |           |            |          |                 |           |                 |          |
| 1 3      |              | 1           |             |          |          |          |          |          |          |              |           |          |          |   |          |               |          |              |        |         | her     |              | 113 |               |            |  |           |            |          |                 |           |                 |          |
| R        | L            | 2           | -           |          |          |          |          |          |          |              |           |          | 316      | hic   | at       | Juil          |          | ar i         | J. 10  |         |         | •            |     |               |            |  |           |            |          |                 |           |                 |          |
|          | Ŀ            | 1           |             |          |          |          |          |          |          |              |           |          |          |   | 41       | EF            | T IN     | NSII         | DE)    | )       |         |              |     |               |            |  |           |            |          |                 |           |                 |          |
| 9        | 4            | 1.          |             |          |          |          |          |          |          |              |           |          |          |   | \-       |               |          |              |        |         |         |              |     |               |            |  |           |            |          |                 |           |                 |          |